**AP STAT- WARM UP 2nd half of Ch. 4 and Ch. 5**

1. Use the following data: {5, 7, 8, 10, 12, 15, 17, 20, 30, 31, 22, 25, 28, 33, 34, 35, 39, 40}.
2. Find the following statistics:

Mean:

Median:

Range (number):

IQR:

1. Create a boxplot for the data
2. Suppose we add the data point 62 to the set of data. Indicate how the statistics in part (a) would change: increase, decrease, or stay about the same.

Mean:

Median:

Range (number):

IQR:

The following are quiz scores from two Algebra 1 Classes.

***Class 1: 68, 93, 53, 100, 77, 86, 91, 88, 72, 74, 66, 82*** *and* ***Class 2: 77, 91, 82, 68, 75, 72, 85, 65, 70, 79, 94, 86***

7) Compare the means of the class scores. Which would you rather be in?

8) Compare the standard deviations. Which class was more consistent in their scores?

Based solely on the mean and median given, decide on the shape of the distribution

9) Mean = 100 10) Mean = 20 11) Mean = 934

Median = 98 Median = 41 Median = 850

Given the data below, decide which summary statistics are more appropriate to report *(mean & std. dev, or median & 5# summary)*

12) {3, 4, 4, 4, 5, 6, 6, 7, 8, 10, 11, 11, 16, 17, 20, 25, 28, 30, 31, 39, 45, 59, 68, 73}

13) {15, 20, 22, 25, 28, 30, 31, 32, 33, 34, 35, 36, 36, 37, 37, 38, 38, 40, 41, 45, 47, 51, 52, 57, 42, 49, 48, 51}

14) Give a set of numbers that would have a standard deviation of 0